

NOVEMBER/DECEMBER 2025

23UEDA32B — COMPUTER NETWORKS

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is Computer network?
2. Discuss the network criteria?
3. State Latency.
4. Define Packet Switching?
5. Name framing.
6. What is burst error?
7. Write any two-routing algorithm.
8. What is the function of router?
9. List out the services provided by email system.
10. Mention the use of port number at transport layer.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss the components of computer network.

Or

- (b) Differentiate TCP/IP and OSI model.

12. (a) Explain unguided transmission media.

Or

- (b) Illustrate trunks used in telephone networks.

13. (a) Explain the Error correction code and Error detection code with an example.

Or

- (b) Describe point-to-point protocol.

14. (a) Expound any one congestion control algorithm.

Or

- (b) Elucidate non - adaptive routing algorithms in detail.

15. (a) Explain how connections are released by Transport layer protocols?

Or

- (b) Give details about the protocol for Gigabit networks.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the functions of Reference model.

17. Describe about Public switched Telephone network.

18. Discuss the Sliding window Protocol.

19. Delegate any Two Routing algorithms.

20. Demonstrate the Internet Transport protocols.

